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OM nucleic - nucleic search, using sw model

Run on: August 19, 2003, 12:03:50 ; Search time 576 Seconds

8835.202 Million cell updates/sec

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Title:      US-09-494-297-1
Perfect score: 2274
Sequence:   1 atgaaaaaacacaggttcc.....gataagaanaacatgactag 2274

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Gapop 10.0 , Gapext 1.0

Total number of hits satisfying chosen parameters: 3008958

Maximum DB seq Length: 20000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published_Applications_NA:*

- 1: /cgn2_6/pdatada/2/pubnba/USO_PUBCOMB.seq.*
- 2: /cgn2_6/pdatada/2/pubnba/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/pdatada/2/pubnba/USO6_NEW_PUB.seq.*
- 4: /cgn2_6/pdatada/2/pubnba/USO6_PUBCOMB.seq.*
- 5: /cgn2_6/pdatada/2/pubnba/USO7_NEW_PUB.seq.*
- 6: /cgn2_6/pdatada/2/pubnba/PCTUS_PUBCOMB.seq.*
- 7: /cgn2_6/pdatada/2/pubnba/USO8_NEW_PUB.seq.*
- 8: /cgn2_6/pdatada/2/pubnba/USO8_PUBCOMB.seq.*
- 9: /cgn2_6/pdatada/2/pubnba/USO9_PUBCOMB.seq.*
- 10: /cgn2_6/pdatada/2/pubnba/USO9_PUBCOMB.seq.*
- 11: /cgn2_6/pdatada/2/pubnba/USO9_NEW_PUB.seq.*
- 12: /cgn2_6/pdatada/2/pubnba/USO9_PUBCOMB.seq.*
- 13: /cgn2_6/pdatada/2/pubnba/USO10_PUBCOMB.seq.*
- 14: /cgn2_6/pdatada/2/pubnba/USO10_PUBCOMB.seq.*
- 15: /cgn2_6/pdatada/2/pubnba/USO10_NEW_PUB.seq.*
- 16: /cgn2_6/pdatada/2/pubnba/USO6_NEW_PUB.seq.*
- 17: /cgn2_6/pdatada/2/pubnba/USO6_PUBCOMB.seq.*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	53	2.3	335913	11	US-09-754-883A-2	Sequence 2, Appl1
2	53	2.8	335913	11	US-09-754-883A-3	Sequence 3, Appl1
3	52.4	2.3	6106	12	US-10-311-455-1445	Sequence 1445, Appl
4	52	2.3	7195	12	US-10-240-453-40	Sequence 40, Appl
5	52	2.3	7195	14	US-10-239-676-30	Sequence 30, Appl
6	51.2	2.3	4985	14	US-10-094-240-10	Sequence 10, Appl
7	50.6	2.2	6815	12	US-10-311-455-644	Sequence 644, Appl
8	50.6	2.2	6815	12	US-10-240-453-50	Sequence 50, Appl
9	50.6	2.2	6815	14	US-10-239-676-50	Sequence 50, Appl
10	50.6	2.2	7819	12	US-10-311-455-1926	Sequence 1926, Appl
11	50.6	2.2	7819	12	US-10-240-485-160	Sequence 160, Appl
12	50.2	2.2	19087	12	US-10-311-455-765	Sequence 766, Appl
13	50	2.2	2000	10	US-09-938-842A-2735	Sequence 2735, Appl
14	50	2.2	6381	12	US-10-311-455-939	Sequence 939, Appl
15	50	2.2	6381	12	US-10-240-485-71	Sequence 71, Appl
16	50	2.2	640681	10	US-09-750-988-1	Sequence 1, Appl1

C 17	49.6	2.2	12705	12	US-10-311-455-121	Sequence 121, App
C 18	49.6	2.2	16724	12	US-10-311-455-1063	Sequence 1063, Ap
C 19	49	2.2	16724	12	US-10-240-485-89	Sequence 89, Appl
C 20	48.2	2.1	5539	12	US-10-240-485-180	Sequence 180, App
C 21	48.2	2.1	6277	12	US-10-311-455-2013	Sequence 2013, App
C 22	48.2	2.1	11944	12	US-10-311-455-2160	Sequence 2160, Ap
C 23	48	2.1	9728	12	US-10-311-455-1876	Sequence 1876, Ap
C 24	47.8	2.1	6306	12	US-10-204-708-50	Sequence 50, Appl
C 25	47.8	2.1	6712	12	US-10-311-455-664	Sequence 664, App
C 26	47.4	2.1	5897	8	US-08-781-986A-320	Sequence 320, App
C 27	47.2	2.1	414	10	US-09-960-352-6528	Sequence 6528, Ap
C 28	47	2.1	625	13	US-10-027-632-650075	Sequence 250075,
C 29	47	2.1	5347	12	US-10-311-455-1642	Sequence 1642, Ap
C 30	47	2.1	6103	12	US-10-311-455-2143	Sequence 2143, Ap
C 31	47	2.1	11260	12	US-10-240-453-27	Sequence 27, Appl
C 32	47	2.1	11260	14	US-10-239-676-19	Sequence 19, Appl
C 33	47	2.1	12025	12	US-10-311-455-1271	Sequence 1271, Ap
C 34	47	2.1	16811	12	US-10-311-455-1919	Sequence 1919, Ap
C 35	46.8	2.1	9504	12	US-10-240-453-281	Sequence 281, App
C 36	46.8	2.1	13584	12	US-10-311-455-588	Sequence 588, App
C 37	46.8	2.1	15548	12	US-10-311-455-2128	Sequence 2128, Ap
C 38	46.8	2.1	18154	12	US-10-311-455-227	Sequence 227, App
C 39	46.8	2.1	335913	11	US-09-754-853A-2	Sequence 2, Appl1
C 40	46.8	2.1	335913	11	US-09-754-853A-3	Sequence 3, Appl1
C 41	46.6	2.0	7928	12	US-10-311-455-67	Sequence 67, Appl
C 42	46.6	2.0	10640	12	US-10-304-095-5	Sequence 5, Appl1
C 43	46.6	2.0	15674	12	US-10-311-455-336	Sequence 336, App
C 44	46.6	2.0	15674	12	US-10-240-485-30	Sequence 30, Appl
C 45	46.6	2.0	2140405	13	US-10-027-632-76212	Sequence 76212, A

ALIGNMENTS

RESULT 1
US-09-754-853A-2

; Sequence 2, Application US/09754853A
; Publication No. US20030005491A1

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; GENERAL INFORMATION:
; APPLICANT: Hauge, Brian M.

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APPLICANT: parnell, Laurence D.
; APPLICANT: parsons, Jeremy D.
;

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; APPLICANT: Wang, Ming Li
; TITLE OF INVENTION: Nucleic Acid

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; TITLE OF INVENTION: Soybean Cyst Nematode
; FILE REFERENCE: 38-10(15810)B

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; CURRENT APPLICATION NUMBER: US/09/754,853A
; CURRENT FILING DATE: 2001-01-05

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; PRIOR APPLICATION NUMBER:
 ; PRIOR FILING DATE: 2000-01

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; NUMBER OF SEQ I
; SEQ ID NO 2

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; LENGTH: 335913
; TYPE: DNA

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; ORGANISM: Glycine max
; FEATURE:

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; NAME/KEY: CDS
; LOCATION: (451

; OTHER INFORMATION: clone ID: 240017_region_G3
US-09-754-853A-2

Query Match 2.3%; Score 53; DB 11; Length 335913

Best LocalSimilarity 45.7%; Pred. No. 4.9;
Matches 185; Conservative 0; Mismatches 220; Indels 0; Gaps 0;

1712 ACAATAAAATATCAATCTCTATTGGACCTCAGTGGCATCCAGAGAATTTAGTGTATTTA 1771

Db 99367 ACAAAATATTAAAAATATATAATTTATTCATTTTAAATATACAAAAATATTTAAATAA 9942

1772 TTCTATCGAAGATAAAAAAGTTATTAACCTGTAACCTCATTAATTTAACATTGAGAAAA 1831

Db 99427 AACATTATTAAAAATTAAATATTAAAAATAAAATATATAACATATTAAATAA 9948

Oy	1832	CGGGATCGGTAGTACGTGGACAGAACTTAACATTTCATTTGGAAATGAATTTAAAAA	1891
Dd	99487	AATCATTTAAAAAATACATACCAAAATRTTAAATAAACATPATAGAAGTAATTTAAAAA	99546
Oy	1892	ATAAATAGCAGAATTCCTTTCGCAACTGTTTAAAACAGATAAAACAACCTCGAATTTTA	1951
Dd	99547	TATTTATTTATTAATTAATAAATAATTTATTTACACTTTTAAAAAATTTGGAATAA	99606
Oy	1952	AAGATGTTAAGCACACATTAATTTAAACATGCGCAAGTTTAACACTCCAAAGCTTTC	2011
Dd	99607	AAAACAAAAAAGAAAAATACAGTAATAAAAATCTTAAACAAAAAAGCTTTTAAACATGTA	99666
Oy	2012	CAGAAAGTTATTCCTTACCTTGTCMAAGAAACAGATTCGTAGAGCTTTAAGTTTAAAGTTA	2071.
Dd	99667	AAAAAATGACTTTAAATGCTATAGAAAAAATAAACTTACAACTTCAAAGTGGTAAGTTCA	99726
Oy	2072	ATAGCCAAGAAGTAGCAAAATGCTACAGCTTTCAAAAACAGAAATTA	2116
Dd	99727	AAGAAAAAAGCTTGACGACTTTTAAAAATGTAAATTTAAATTTTTAAAAA	99771

RESULT 2

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US-09-754-853A-3
Sequence 3, Application US/09754853A
Publication No. US20030005491A1
GENERAL INFORMATION:
APPLICANT: Hauge, Brian M.
APPLICANT: Parnell, Laurence D.
APPLICANT: Parsons, Jeremy D.
APPLICANT: Wang, Ming Li
TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
FILE REFERENCE: 38-10(15810)B
CURRENT APPLICATION NUMBER: US/09/754, 853A
CURRENT FILING DATE: 2001-01-05
PRIORITY APPLICATION NUMBER: US 60/174, 880
PRIORITY FILING DATE: 2000-01-07
NUMBER OF SEQ ID NOS: 1119
SEQ ID NO 3
LENGTH: 335913
TYPE: DNA
ORGANISM: Glycine max
FEATURE:
NAME/KEY: CDS
LOCATION: (46798)..(48763),(48975)..(49573)
OTHER INFORMATION: Clone ID: 240017_region_G3
US-09-754-853A-3

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Query Match      2.38;  Score 53;  DB 11;  Length 335913;
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Best Local Similarity 45.78; Pred. No. 4.9;
Matches 185; Conservative 0; Mismatches 220; Indels 0; Gaps 0

OY	1712	ACAAATTAATCATCTGCTTTATTGGAACTCGTGGCCAGCAAGATTGTGATATTA	1771
Db	99367	ACAAAATATTTAAATATATATAAATTAATCTCATTTTTAATATTCAAAAATATTTTAAATAA	9422
OY	1772	TTCGTANGGAAGATAAAAAGAAGTATACCTGTAAGTCATTAATTTAACATTTGAGAAAA	1831
Db	99427	AACATTTATTTTTAAAAATATATATAAATTTTAAAAATAAAAAATATATACAATATTAATTA	9448
OY	1832	CGGTACTGGTTTAGCTGGTGAGCAAGCAATTAAGTTCCATTTTGAATTAAGATTAATAA	1891
Db	99487	AATCATTTAAAAAAATACATACAAATATTTAAATTAATTAAGAACTTAATTAATTA	9954
OY	1892	ATAATTAAGCAAGATTGCTTTCACAACTGTTAAACAGATTAACAAACCTCGAATTTA	1951
Db	99547	TATTTATTTATTAATTAATTAATAAATAATTAATTTACAACTTTTAAAAAAATTTGAAATA	9960
OY	1952	AAGATGTTAAGCAACACATTAAATTTAAACAATGGGCAAGTTTACACTCCAGGTTTAC	2011
Db	99607	AAAACAAAGAAATACAGTAATTAATTAATCTTAACAAACAAACCTTTAAACATGAA	9966
OY	2012	CAGAAGTTATTTCTTACCCTTGTCMAAGAACAGATTTCTGAAGGCTATTAAGGTTAAAGTTA	2071

Db 99667 AAAAAAGACTTTTAAATCATAGAAAAAAAACCTTACACTTCAAAGTGGTAAGTTCA 99726
 Oy 2072 ATAGCCAAGAGTAGCAAAATGCTACAGTTTCAAAAACAGGAATTA 2116
 Db 99727 AAGAAAAAAGCTGTACGACTTTAAAAATGTAATTTAAAAATAAAAA 99771

RESULT 3

US-10-311-455/c
 ? Sequence 1445, Application US/10311455
 ? Publication No. US20030143606A1
 ? GENERAL INFORMATION:
 ? APPLICANT: OLEK, Alexander
 ? APPLICANT: PIEPENBROCK, Christian
 ? APPLICANT: BEBLIN, Kurt
 ? TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Det
 ? TITLE OF INVENTION: Cytosine methylation
 ? FILE REFERENCE: 5013.1014
 ? CURRENT APPLICATION NUMBER: US/10/311,455
 ? CURRENT FILING DATE: 2002-12-16
 ? PRIOR APPLICATION NUMBER: PCT/EP01/07537
 ? PRIOR FILING DATE: 2001-07-02
 ? PRIOR APPLICATION NUMBER: DE 10032529.7
 ? PRIOR FILING DATE: 2000-06-30
 ? PRIOR APPLICATION NUMBER: DE 10043826.1
 ? PRIOR FILING DATE: 2000-09-01
 ? NUMBER OF SEQ ID NOS: 2424
 ? SEQ ID NO 1445
 ? LENGTH: 6106
 ? TYPE: DNA
 ? ORGANISM: Artificial Sequence
 ? FEATURE:
 ? OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-311-455-1445

Query Match 2.3%; Score 52.4; DB 12; Length 6106;

Best Local Similarity 46.7%; Pred: No. 1.1;
Matches 271; Conservative 0; Mismatches 301; Indels 8; Gaps 3

QY	1544	TATTTTATTTTCACGATGTGCTCGAATTTAGATTAAGCATTAACCAATACATCGGTT	1603
Db	2939	TATATATATTTATATATTAATTAATTTATATATATTTATATATATTAATTTATATATATTT	2888
QY	1604	TTGGAGACATCAATGATAGTAGTACTTTAGCAGTTGCTAAATCCCTGTAGAAATACGCTCAAG	1663
Db	2879	ATAATCAAT	2820
QY	1664	ATATCAATATCCCGACAGCTACCTAGACCTCGAATTTCTTATATCCGAATTAACAATAATATC	1722
Db	2819	TTAAT-TAT	2766
QY	1724	AATCTCTTATTTGGACCTCAGTGGCATCCAGAGATTTTAGTTGATATATATTCGATGAGAG	1783
Db	2760	ATTAT	2701
QY	1784	ATATAAAAAAGATTATACCTGTACCTCATTTATTAACATTTAGAAAAAACGGTCACTGGTT	1844
Db	2700	AT	2648
QY	1844	TAGCTGGTACAGACAATAAGATTTCCATTTTGAATTTGAATTTAAAAATATATAGCAAG	1903
Db	2645	CTCTTAAAAACACAAAAAACCATTTATTAATATAAAAACATTTTCATCTATCAATAAAAAACATATTT	2586
QY	1904	AATTCCTTTCTCAACATGTTAAAAACAGATTAACAAACCTCGAATTTAAAGATGGTAAAG	1963
Db	2585	AACATAATTTAATTAATTTACTTTATCACACTAATTTATCTTATTTAAAAATTAACCTATAAAAAA	2526
QY	1964	CAACCATTAATTTTAAAAACATGGGGAAGTTTAAACACTGTCAGGTTTACCAAGAGTTATTT	2023
Db	2525	CAAAAAACAATAATCAAAAAAACCAATCAAAAAAACCTATTAACACAAATTTCCATTAAAAAATTA	2466
QY	2024	CTTACCTCTGTCAAAAGAAACAGATTTCTGAGGCTTTAAGGTTTAAAGTTAATGATGCCAAGAG	2083

Db 2465 ATACTTAATCAAAAAAAGCTATTAACCTAACCAATTA--CTAAAAAAGCTAAAAA 2408
QY 2084 TAGCAATGCTACACTTTCAAAAACAGCAATTAACAGTGA 2123
Db 2407 TAAAAAATAAAAATTTTAAACGATCTATATAAATA 2368

RESULT 4

US-10-240-453-40/C
; Sequence 40, Application US/10240453
; Publication No. US20030148326A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA
; TITLE OF INVENTION: Transcription
; TITLE OF INVENTION: by Means of Assessing the Methylation Status of Genes Associated
; FILE REFERENCE: 5013.1009
; CURRENT APPLICATION NUMBER: US/10/240,453
; CURRENT FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: PCT/EP01/03973
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: DE 10019058.8
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 350
; SEQ ID NO 40
; LENGTH: 7195
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-240-453-40

Query Match 2.3%; Score 52; DB 12; Length 7195;
Best Local Similarity 52.3%; Pred. No. 1.4;
Matches 139; Conservative 0; Mismatches 125; Indels 2; Gaps 1;

QY 1717 AATATCACTCTTATGGAACCTGAGTCAGCAAGATTGATTAATTCGT 1776
Db 1246 AAACATTTAAATTTTAAATATCTCAATATATCAACATTAATTAATCTA 1187
QY 1777 ATGAGATTAATAAAGAGTTATCCCTAATCTAATTTAACAATTGAGAAAAACGGTG 1836
Db 1186 AACACAAAAAATAAATAATATCTAATTAATTAACAAAAAATAAATAA 1127
QY 1837 ACTGTTAGCTGTGACAGAACTAAGATTTCATTTGAATTTGAATTAATAAT 1896
Db 1126 ATAATATATAAACAATTAATAAATAAAGACATCTCTTAATTTAATAATAAT 1067
QY 1897 AAGCAAGATTGCTTCTCAACCTGTTAAACAGATAAACAACCTCGAATTAAGAT 1956
Db 1066 AAAATATATATTAATTAACATAAACCCTTCCAAAATATATTTAAACACTTCTTAA--AT 1009
QY 1957 GGTAAAGCAACCATTAATTTAAACA 1982
Db 1008 CCTAAAAAATCTTAATTTAAATA 983

RESULT 5

US-10-239-676-30/C
; Sequence 30, Application US/10239676
; Publication No. US20030082609A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander

APPLICANT: PIEPENBROCK, Christian
APPLICANT: BERLIN, Kurt
TITLE OF INVENTION: Diagnosis of Diseases Associated with Gene Regulation
FILE REFERENCE: 5013.1003
CURRENT APPLICATION NUMBER: US/10/239,676
CURRENT FILING DATE: 2002-09-24
PRIOR APPLICATION NUMBER: PCT/EP01/03968
DE 10019058.8
DE 10019173.8
DE 10032529.7
DE 10043826.1
PRIOR FILING DATE: 2001-04-06
PRIOR FILING DATE: 2000-04-06
PRIOR FILING DATE: 2000-04-07
PRIOR FILING DATE: 2000-06-30
PRIOR FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 228
SEQ ID NO 30
LENGTH: 7195
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-239-676-30

Query Match 2.3%; Score 52; DB 14; Length 7195;
Best Local Similarity 52.3%; Pred. No. 1.4;
Matches 139; Conservative 0; Mismatches 125; Indels 2; Gaps 1;

QY 1717 AATATCACTCTTATGGAACCTGAGTCAGCAAGATTGATTAATTCGT 1776
Db 1246 AAACATTTAAATTTTAAATATCTCAATATATCAACATTAATTAATTAATCTA 1187
QY 1777 ATGAGATTAATAAAGAGTTATCCCTAATCTAATTTAACAATTGAGAAAAACGGTG 1836
Db 1186 AACACAAAAAATAAATAATATCTAATTAATTAACAAAAAATAAATAA 1127
QY 1837 ACTGTTAGCTGTGACAGAACTAAGATTTCATTTGAATTTGAATTAATAAT 1896
Db 1126 ATAATATATAAACAATTAATAAATAAAGACATCTCTTAATTTAATAATAAT 1067
QY 1897 AAGCAAGATTGCTTCTCAACCTGTTAAACAGATAAACAACCTCGAATTAAGAT 1956
Db 1066 AAAATATATATTAATTAACATAAACCCTTCCAAAATATATTTAAACACTTCTTAA--AT 1009
QY 1957 GGTAAAGCAACCATTAATTTAAACA 1982
Db 1008 CCTAAAAAATCTTAATTTAAATA 983

RESULT 6

US-10-094-240-10/C
; Sequence 10, Application US/10094240
; Publication No. US20030082637A1
; GENERAL INFORMATION:
; APPLICANT: ZWIBEL, LAURENCE J.
; TITLE OF INVENTION: ARRESTIN GENE, POLYPEPTIDE, AND METHODS OF USE THEREOF
; FILE REFERENCE: N8289
; CURRENT APPLICATION NUMBER: US/10/094,240
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 10/056,405
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: 60/264,649
; PRIOR FILING DATE: 2001-01-26
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 10
; LENGTH: 4985
; TYPE: DNA
; ORGANISM: Anopheles gambiae
US-10-094-240-10

Query Match 2.3%; Score 51.2; DB 14; Length 4985;

Best Local Similarity 43.9%; Pred. No. 1.7;
Matches 266; Conservative 0; Mismatches 338; Indels 2; Gaps 1;

QY 1324 AAAACATGACCTCCAGACTTTACACAGGAGAGTAAATACCTCATATATGAGGCTGT 1383
 Db 2924 AT 2865
 QY 1384 GACCTTTTAAATATATCTGTGAACCAAGATACGATCCTGACCTTCTTAAACAT 1443
 Db 2864 AATAAAT 2805
 QY 1444 ATCAAAAAGTAAATGAGAAAGGTTACAGGAAAAAGACACCTATTTAGTATAGTGT 1503
 Db 2804 AAAAAAT 2745
 QY 1504 CTACAGCAGACAAATTTGGCTGGCTACCTACCTAGCATATATATATTTCACTGATAGT 1563
 Db 2744 AT 2685
 QY 1564 GCTGAATTAATAGATTAAGATTAACCTAAAGACTATCATGTTTGGAGACATGATGATGT 1623
 Db 2684 AATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2627
 QY 1624 ACTTTGACAGTGTCTTAAATCTTGTAGAAATACGTCACAGATAGTAATCTCCACAGCTTA 1683
 Db 2626 AATAAAT 2567
 QY 1684 ACTGACCTGATTTCTTTATTCGCAATTAACAAATTAATTAATTAATTAATTAATTAAT 1743
 Db 2566 AATAAAT 2507
 QY 1744 TGGCATCCAGAGATTTAGTTGATTAATTCGTATGAGAGATTAATTAATTAATTAAT 1803
 Db 2506 AATAAAT 2447
 QY 1804 GTACACATTAATTTACATTTGAGAAAAACGCTACGTGTTTACCTGTCAGAACTAAA 1863
 Db 2446 AATAAAT 2387
 QY 1864 GATTTCCATTTTGAATTTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1923
 Db 2386 AATAAAT 2327
 QY 1924 AAAACA 1929
 Db 2326 ACTAAA 2321

RESULT 7

US-10-311-455-644/c
 ; Sequence 644, Application US/10311455
 ; Publication No. US20030143606A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPENBROCK, Christian
 ; APPLICANT: BERLIN, Kurt
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determining the Methylation Status of Genes
 ; FILE REFERENCE: 5013.1014
 ; CURRENT APPLICATION NUMBER: US/10/311.455
 ; CURRENT FILING DATE: 2002-12-16
 ; PRIOR APPLICATION NUMBER: PCT/EP01/07537
 ; PRIOR FILING DATE: 2001-07-02
 ; PRIOR APPLICATION NUMBER: DE 10032529.7
 ; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; PRIOR FILING DATE: 2000-09-01
 ; NUMBER OF SEQ ID NOS: 2424
 ; SEQ ID NO 644
 ; LENGTH: 6815
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:

OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-311-455-644

Query Match 2.2%; Score 50.6; DB 12; Length 6815;
 Best Local Similarity 48.8%; Pred. No. 2.6;
 Matches 137; Conservative 0; Mismatches 144; Indels 0; Gaps 0;

QY 1871 ATTTGAATTTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1930
 Db 5735 AATTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5676
 QY 1931 ATTAACCAAACTCGAATTTAAAGATGTAACCAACATTAATTTAAACATGGGAAA 1990
 Db 5675 ATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5616
 QY 1991 GTTTACACTTCAGGTTTACCGAAGGTTATCTTACCTGTGCAAGAAACAGATTCG 2050
 Db 5615 ACTTAAACCTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5556
 QY 2051 AAGCTATTAAGTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2110
 Db 5555 CGAAAAAACAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5496
 QY 2111 GAATTAACAAGTGATGAGACACTTGTCTTTGAAAAATTAATAA 2151
 Db 5495 CACGAAAAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5455

RESULT 8

US-10-240-453-50/c
 ; Sequence 50, Application US/10240453
 ; Publication No. US20030148326A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OLEK, Alexander
 ; APPLICANT: PIEPENBROCK, Christian
 ; APPLICANT: BERLIN, Kurt
 ; TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA
 ; TITLE OF INVENTION: by Means of Assessing the Methylation Status of Genes
 ; FILE REFERENCE: 5013.1009
 ; CURRENT APPLICATION NUMBER: US/10/240.453
 ; CURRENT FILING DATE: 2002-10-02
 ; PRIOR APPLICATION NUMBER: PCT/EP01/03973
 ; PRIOR FILING DATE: 2001-04-06
 ; PRIOR APPLICATION NUMBER: DE 10019058.8
 ; PRIOR FILING DATE: 2000-04-06
 ; PRIOR APPLICATION NUMBER: DE 10019173.8
 ; PRIOR FILING DATE: 2000-04-07
 ; PRIOR APPLICATION NUMBER: DE 10032529.7
 ; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: DE 10043826.1
 ; PRIOR FILING DATE: 2000-09-01
 ; NUMBER OF SEQ ID NOS: 350
 ; SEQ ID NO 50
 ; LENGTH: 6815
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
 US-10-240-453-50

Query Match 2.2%; Score 50.6; DB 12; Length 6815;
 Best Local Similarity 48.8%; Pred. No. 2.6;
 Matches 137; Conservative 0; Mismatches 144; Indels 0; Gaps 0;

QY 1871 ATTTGAATTTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1930
 Db 5735 AATTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5676
 QY 1931 ATTAACCAAACTCGAATTTAAAGATGTAACCAACATTAATTTAAACATGGGAAA 1990
 Db 5675 ATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5616

RESULT 10
US-10-311-455-1926/c
; Sequence 1926, Application US/10311455

;
; PRIOR FILING DATE: 2000-04-06
;
; PRIOR APPLICATION NUMBER: DE 10019173.8

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; PATER INFORMATION AVAILABLE DE 100197008.
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07

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? PRIOR APPLICATION NUMBER: DE 100332529.7
? PRIOR FILING DATE: 2000-06-30
? PRIOR APPLICATION NUMBER: DE 10043826.1
? PRIOR FILING DATE: 2000-09-01
? NUMBER OF SEQ ID NOS: 202
? SEQ ID NO 160
? LENGTH: 7819
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
IS-10-240-485-160

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Query Match	2.28;	Score 50.6;	DB 12;	Length 7819;
Best Local Similarity	47.18;	Pred. NO. 2.8;		
Matches 155; Conservative	0;	Mismatches 174;	Indels 0;	Gaps 0;

OY 1638 TAAATTCCTGTAGAAATGCGTCAAGATAGTAATCCTCCACAGCTACTGCCTGGATT 1697
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 846 TAACTCCCAAATATTTTAAATTTCAATATATAACCACACTAGCCCTAATCTACCCATCTT 787

OY 1698 CTTTATTCGAATPAACAATTAATATCAATCTCTATTGGAACCTAGTGCGATCCAGAAGA 1757
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 786 TATTACATAATTTTTAAAATTCCTTTTACCTAATCTTTTCAAACTAAATTTTAAACCATATCT 727

OY 1758 TTTAGTGAATTTATTTGCTATGTAAGAAATAAAAAGAAAGTTTACTGCTAACTCAATATTT 1817
|| | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 726 ATCCCTAAATTTAATCCTTAATTAATTAATACGCCAAAAAAAAACTCCACGTTACCCAGAACT 667

OY 1818 AACATTGAGAAAAACGGTACTGCTTTAGCTGTGTGACAGAACTAAAGATTTCCATTTTGA 1877
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 666 AACATTCAAAACCTCATATATCTAAATPACCACTCAAAACCTTAATAACCAAAACAAAATTT 607

OY 1878 AATGGAATTAATAAATATAAACAAGATTCCTTTCCAACCTGTTTAAACAGATTAANAAC 1937
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 606 TATTAANTTAATAATTAATAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 547

OY 1938 AAACCTCGAATTTAAAGATGTTAAAGCAA 1966
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 546 AAAAAAAAAAAAAAAAAATCTTAAAAAAAAAA 518

```

RESULT 12
US-10-311-455-766/C
; Sequence 766, Application US/10311455
; Publication No. US20030143606A1
; GENERAL INFORMATION:
; APPLICANT: OLEK, Alexander
; APPLICANT: PIEPENBROCK, Christian
; APPLICANT: BERLIN, Kurt
; TITLE OF INVENTION: Diagnosis of Diseases Associated with the Immune System by Determining Cytosine Methylation
; FILE REFERENCE: 5013.1014
; CURRENT APPLICATION NUMBER: US/10/311.455
; CURRENT FILING DATE: 2002-12-16
; PRIOR APPLICATION NUMBER: PCT/EP01/07537
; PRIOR FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: DE 10032529.7
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: DE 10043826.1
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 2424
; SEQ ID NO 766
; LENGTH: 19087
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-311-455-766

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Query Match	2.2%	Score 50.2;	DB 12;	Length 19087;
Best Local Similarity	46.9%;	Pred. No. 5.1;		
Matches 157;	Conservative 0;	Mismatches 178;	Indels 0;	Gaps 0;

QY	1757	ATTAGTGGTAATTAATTCGATGGAACATATAAAAAAGAAAGTTAATACCGCTGAACCAATAT	1816
Db	10661	ATTAACTAATTAATTAATTCATTAATTCATATAAAATCCAAAAATATATCTATCTTAATATAAT	10544
QY	1817	TAACATTGAGAAAAACGGTAGCTGGTTTACCTGGTGACAGACTAAAGATTTCCATTTTG	1876
Db	10541	AATCCCTAAAAAAATTCMAAAAAATATAAAAATATAAAAAATCAATTAATTAATTTTAA	10482
QY	1877	AAATGGAATTAATAAATAATAGCAAGATTCGTTCTCAACTGTGTAATAACAGATTA	1936
Db	10481	ACATTATTTTATTAATAAAAAAATAAATAATACATAACAAAAATTAACCTAAAAAAT	10422
QY	1937	CAAACTTCGATTTAAAGATGTAAGCAACCATTAATTTAAACATGGGAAAGTTAA	1996
Db	10421	ACCACTAATATTAATTAATTTAAAAAAATAATTAATCTTACCAAAATCAATATTTAA	10362
QY	1997	CACATCAAGTTTACCGAAGGTATATCTTCACCTGTCGAAGAAGACAGATTCGAAGCT	2056
Db	10361	TTCTATTAAACAACATTAATAAATACCTTCCCTTCGAATTAACAAATATAAATCA	10300
QY	2057	ATAAGTTAAAGTTAATAGCCAGAACTACCAAT	2091
Db	10301	ATTAATTAATAAATACTTACCTTACTAAT	10267

```

RESULT 13
US-09-938-842A-2735
: Sequence 2735, Application US/09938842A
: Patent No. US20020160378A1
: GENERAL INFORMATION:
: APPLICANT: Harper, Jeff
: APPLICANT: Krepes, Joel
: APPLICANT: Wang, Xun
: APPLICANT: Zhu, Tong
: TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
: TITLE OF INVENTION: SAME, AND METHODS OF USE
: FILE REFERENCE: SCRIPT300-3
: CURRENT APPLICATION NUMBER: US/09/938, 842A
: CURRENT FILING DATE: 2001-08-24
: PRIOR APPLICATION NUMBER: US 60/227, 866
: PRIOR FILING DATE: 2000-08-24
: PRIOR APPLICATION NUMBER: US 60/264, 647
: PRIOR FILING DATE: 2001-01-16
: PRIOR APPLICATION NUMBER: US 60/300, 111
: PRIOR FILING DATE: 2001-06-22
: NUMBER OF SEQ ID NOS: 5379
: SEQ ID NO 2735
: LENGTH: 2000
: TYPE: DNA
: ORGANISM: Arabidopsis thaliana
US-09-938-842A-2735

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Query Match	2.28;	Score 50;	DB 10;	Length 2000;
Best Local Similarity	51.38;	Pred. No. 2;		
Matches 116;	Conservative 0;	Mismatches 110;	Indels 0;	Gaps 0.

QY 1692 GATTTCGTTCTTATCCGGAATATCAATTAATCAATCTCTTTGGAACTCGATGGCAATCC 1751
 Db 1241 TTATTTGCATCTTTAGATGATGATATACATCCGATATCTATGATGTGAAATTAATAAGTCAGTG 1300
 QY 1752 AGAAGATTGATGTTATATTTATTCGTATGGAAGATATAAAGAAAGAAAGTATTAACCTGTACATCA 1811
 Db 1301 TAAAGACTGTGAAGGTCTTTTAAACAGAAAGAAAAAGAAAGAACTGTGAAGTGAAGAAACA 1360
 QY 1812 TAAATTTAAACATTTGAGAAAAACGATGACTGTTTAGCTGGTGACAGAACTAAAGATTTTCCA 1871
 Db 1361 TTATTAATTAAGAGGAAAAAGGATGAAAAACATTTAAAGTGCCATGAGAAAGTGTAAAAACA 1420
 QY 1872 TTTTGAATTTGAATTAATAAATAATTAATAGCAAGATTTGCTTTCCTCA 1917
 Db 1421 TTATTTAAATATCCAAAGAAAAAGTGAAGAAAAATTTTAAATTTATATATA 1466

